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### 1 [Enhancing the security of corporate Wi-Fi networks using DAIR](#)

[Paramvir Bahl](#), [Ranveer Chandra](#), [Jitendra Padhye](#), [Lenin Ravindranath](#), [Manpreet Singh](#), [Alec Wolman](#), [Brian Zill](#)

June 2006 **MobiSys '06: Proceedings of the 4th international conference on Mobile systems, applications and services**

**Publisher:** ACM

Full text available: [Pdf](#) (302.26 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 65, Downloads (12 Months): 322, Citation Count: 5

We present a framework for monitoring enterprise wireless networks using desktop infrastructure. The framework is called DAIR, which is short for *Dense Array of Inexpensive Radios*. We demonstrate that the DAIR framework is useful for detecting ...

### 2 [Configuring gestures as expressive interactions to navigate multimedia recordings from visits on multiple projections](#)

[Giulio Jacucci](#), [Juha Kela](#), [Johan Plomp](#)

October 2004 **MUM '04: Proceedings of the 3rd international conference on Mobile and ubiquitous multimedia**

**Publisher:** ACM

Full text available: [Pdf](#) (533.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 55, Citation Count: 1

The wide availability of digital recording devices leads to investigate how multimedia content can be navigated beyond a desktop computer set up. We present a system and a variety of applications, to navigate multimedia recordings from visits making ...

Keywords: gesture-based interaction, multiple projections, visualising digital photographs

### 3 [Sensor-enhanced mobile web clients: an XForms approach](#)



John Barton, Tim Kindberg, Hui Dai, Nissanka B. Priyantha, Fahd Al-bin-ali

May WWW '03: Proceedings of the 12th international conference on World Wide Web 2003 Web

**Publisher:** ACM

Full text available: Pdf (485.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 55, Citation Count: 4

This paper describes methods for service selection and service access for mobile, sensor-enhanced web clients such as wireless cameras or wireless PDAs with sensor devices attached. The clients announce their data-creating capabilities in "Produce" headers ...

Keywords: MIME types, browsers, forms, mobile computing, sensors, ubiquitous computing

### 4 [A self-adaptive context processing framework for wireless sensor networks](#)



Amirhosein Taherkordi, Romain Rouvoy, Quan Le-Trung, Frank Eliassen

December MidSens '08: Proceedings of the 3rd international workshop on 2008 Middleware for sensor networks

**Publisher:** ACM

Full text available: Pdf (313.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 26, Downloads (12 Months): 50, Citation Count: 0

Wireless sensor networks are increasingly being exploited in ubiquitous computing environments as one of the main platforms for gathering context data. In order to continuously observe the environment context during a long period, the sensor node should ...

Keywords: adaptation, context-awareness, middleware, wireless sensor networks

### 5 [A goal-oriented interface to consumer electronics using planning and commonsense reasoning](#)



Henry Lieberman, José Espinosa

January I UI '06: Proceedings of the 11th international conference on Intelligent 2006 user interfaces

**Publisher:** ACM

Full text available: Pdf (427.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 81, Citation Count: 4

We are reaching a crisis with design of user interfaces for consumer electronics. Flashing 12:00 time indicators, push-and-hold buttons, and interminable modes and menus are all symptoms of trying to maintain a one-to-one correspondence between functions ...


Keywords: commonsense reasoning, consumer electronics, goal-oriented interfaces, planning

6 [Supporting configurability in a mixed-media environment for design students](#)

[Thomas Binder](#), [Giorgio De Michelis](#), [Michael Gervautz](#), [Giulio Jacucci](#), [Kresimir Matkovic](#), [Thomas Psik](#), [Ina Wagner](#)

September      Personal and Ubiquitous Computing , Volume 8 Issue 5  
2004

**Publisher:** Springer-Verlag

Full text available:  Pdf (573.71 KB)      Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 61, Citation Count: 7

In many environments, the landscape of space and artefacts is evolving and changing with the tasks at hand. Integrating digital media and computation in these environments has to take into account the fact that people will configure space functions and ...

Keywords: Boundary objects, Configurability, Mixed media environments, Mixed objects, Physical interfaces


7 [Implementing physical hyperlinks using ubiquitous identifier resolution](#)



[Tim Kindberg](#)

May      WWW '02: Proceedings of the 11th international conference on World Wide  
2002      Web

**Publisher:** ACM

Full text available:  Pdf (400.83 KB)      Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 65, Citation Count: 12


Identifier resolution is presented as a way to link the physical world with virtual Web resources. In this paradigm, designed to support nomadic users, the user employs a handheld, wirelessly connected, sensor-equipped device to read identifiers associated ...

Keywords: identifier resolution, mobile computing, nomadic computing, physical hyperlinks, ubiquitous computing

8 [People, places, things: web presence for the real world](#)

October      Mobile Networks and Applications , Volume 7 Issue 5  
2002

**Publisher:** Kluwer Academic Publishers

Full text available:  Pdf (248.58 KB)      Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 143, Citation Count: 20

The convergence of Web technology, wireless networks, and portable client devices provides new design opportunities for computer/communications systems. In the HP Labs' "Cooltown" project we have been exploring these opportunities through an infrastructure ...


Keywords: location-aware computing, nomadic computing, physical-virtual linkage, ubiquitous computing, world wide web

9 [Exploring context-awareness for ubiquitous computing in the healthcare domain](#)

[Jesper Kjeldskov](#), [Mikael B. Skov](#)

October      Personal and Ubiquitous Computing , Volume 11 Issue 7  
2007

**Publisher:** Springer-Verlag

Full text available:  Pdf (443.89 KB)      Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 19, Downloads (12 Months): 188, Citation Count: 0

Ubiquitous technologies have potentials to play major roles in different real world organizational settings. One of the areas where applying ubiquitous technologies has been given a lot of attention is in the healthcare domain. Here, users are frequently ...


10 [An open agent architecture for assisting elder independence](#)



[Karen Zita Haigh](#), [John Phelps](#), [Christopher W. Geib](#)

July      AAMAS '02: Proceedings of the first international joint conference on  
2002      Autonomous agents and multiagent systems: part 2

**Publisher:** ACM

Full text available:  Pdf (189.14 KB)      Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 19, Downloads (12 Months): 184, Citation Count: 4

We are building an agent-oriented system to aid elderly people to live longer in their homes, increasing the duration of their independence from round-the-clock care while maintaining important social connectedness and reducing caregiver burden. The ...


11 [Getting a grip on tangible interaction: a framework on physical space and social interaction](#)



[Eva Hornecker](#), [Jacob Buur](#)

April      CHI '06: Proceedings of the SIGCHI conference on Human Factors in  
2006      computing systems

**Publisher:** ACM

Full text available:  Pdf (7.36 MB)      Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 21, Downloads (12 Months): 359, Citation Count: 33

Our current understanding of human interaction with hybrid or augmented environments is very limited. Here we focus on 'tangible interaction', denoting systems that rely on embodied interaction, tangible manipulation, physical representation of data, ...

Keywords: CSCW, analysis, collaboration, design, framework, social interaction, tangible interaction, tangible interface

**12** [First results with eBlocks: embedded systems building blocks](#)



[Susan Cotterell](#), [Frank Vahid](#), [Walid Najjar](#), [Harry Hsieh](#)

October 2003 CODES+ I SSS '03: Proceedings of the 1st IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis

**Publisher:** ACM

Full text available: Pdf (433.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 35, Citation Count: 3

We describe our first efforts to develop a set of off-the-shelf hardware components that ordinary people could connect to build a simple but useful class of embedded systems. The class of systems, which we call monitor/control systems, is composed primarily ...

Keywords: embedded systems, intelligent homes, networks

**13** [Rapid design and manufacture of wearable computers](#)



[S. Finger](#), [M. Terk](#), [E. Subrahmanian](#), [C. Kasabach](#), [E. Prinz](#), [D. P. Siewiorek](#), [A. Smailagic](#), [J. Stivoric](#), [L. Weiss](#)

February 1996 Communications of the ACM , Volume 39 Issue 2

**Publisher:** ACM

Full text available: Pdf (741.59 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 63, Citation Count: 5

**14** [Designing home availability services](#)

[Kristine S. Nagel](#), [Ja-Young Sung](#), [Gregory D. Abowd](#)

June 2007 Personal and Ubiquitous Computing , Volume 11 Issue 5

**Publisher:** Springer-Verlag

Full text available: Pdf (329.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 53, Citation Count: 0

We have explored the challenges of designing domestic services to help family and friends determine mutually agreeable times to call one another. In a prior study, we identified activities in the home that predict availability to an external interruption. ...

**15** [Communications of the ACM: Volume 51 Issue 1](#)



January 2008 Communications of the ACM

**Publisher:** ACM

Full text available: Digital Edition , Pdf (5.97 MB) Additional Information: [full citation](#), [index terms](#)


**Bibliometrics:** Downloads (6 Weeks): 395, Downloads (12 Months): 5088, Citation Count: 0

**16** [A middleware for ecologies of robotic devices](#)

[Mathias Broxvall](#)

October 2007      RoboCom m '07: Proceedings of the 1st international conference on Robot communication and coordination

**Publisher:** IEEE Press

Full text available:  [Pdf](#) (691.71 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 35, Citation Count: 0

The fields of autonomous robotics and ambient intelligence are converging toward the vision of smart robotic environments, or ubiquitous robotics, in which tasks are performed via the cooperation of many simple networked robotic devices. The concept ...



**17** [Extrovert gadgets](#)



[Achilles Kameas](#), [Irene Mavrommati](#)

March 2005      Communications of the ACM , Volume 48 Issue 3

**Publisher:** ACM

Full text available:  [Html](#) (8.90 KB),  [Pdf](#) (62.88 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 105, Citation Count: 0

Configuring and reconfiguring ubiquitous applications composed of communicating artifacts.

**18** [CHI '06 extended abstracts on Human factors in computing systems](#)



[Gary Olson](#), [Robin Jeffries](#)

April 2006      CHI '06: CHI '06 extended abstracts on Human factors in computing systems

**Publisher:** ACM

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

Welcome to the CHI 2006 *Extended Abstracts*. We hope that you will enjoy this year's extended abstracts and the changes that we have made. For the first time this year, we encouraged submissions from six different sub-communities of the human-computer ...


**19** [A platform for ubiquitous sensor deployment in occupational and domestic environments](#)



[Joshua Lifton](#), [Mark Feldmeier](#), [Yasuhiro Ono](#), [Cameron Lewis](#), [Joseph A. Paradiso](#)

April 2007 IPSN '07: Proceedings of the 6th international conference on Information processing in sensor networks

**Publisher:** ACM

Full text available:  Pdf (5.53 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 184, Citation Count: 5

In this paper, we introduce the "Plug" sensor network, a ubiquitous networked sensing platform ideally suited to broad deployment in environments where people work and live. The backbone of the Plug sensor network is a set of 35 sensor-, radio-, and ...

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